



**Model Number**

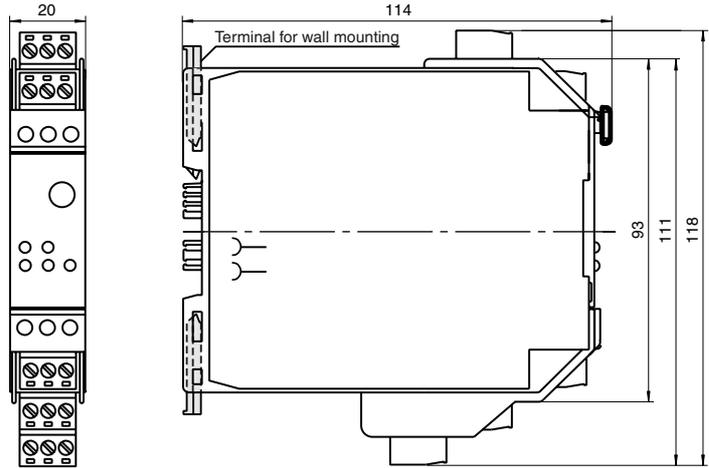
**VAA-4E-KF2-ZE**

Cabinet module  
4 inputs (PNP)

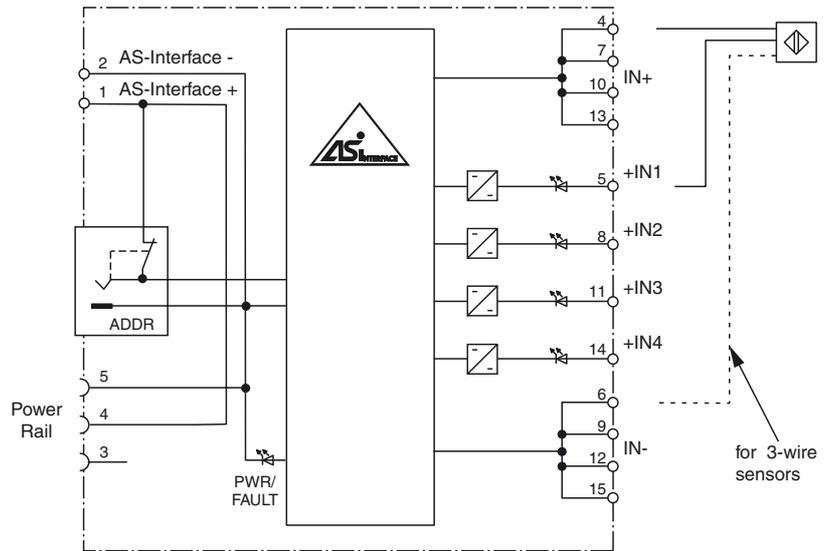
**Features**

- Housing with removable, coded terminals
- AS-Interface connection via Power Rail
- Addressing jack
- Inputs for 2- and 3-wire sensors
- Function display for bus and inputs
- Power supply of inputs from the module

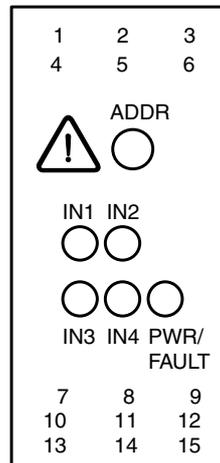
**Dimensions**



**Electrical connection**



**Indicating / Operating means**



Release date: 2005-11-25 12:36 Date of issue: 2005-11-25 087527\_ENG.xml

## Technical data

## General specifications

Slave type	Standard slave
AS-Interface specification	V2.0
Required master specification	≥ V2.0
UL File Number	E87056

## Indicators/operating means

LED PWR/FAULT	dual LED green/red green: AS-Interface voltage red: communication error or address 0 green/red flashing: overload sensor supply
LED IN	switching state (input); 4 LED yellow
LED OUT	switching state (output); 4 LED yellow

## Electrical specifications

Protection class	III
Rated operational voltage	$U_o$ 26.5 ... 31.6 V from AS-Interface
Rated operational current	$I_e$ ≤ 50 mA (without sensors) / max. 200 mA

## Input

Number/Type	4 inputs for 2- or 3-wire sensors (PNP), DC
Supply	from AS-Interface
Voltage	21 ... 31 V DC
Current loading capacity	≤ 150 mA, short-circuit protected
Switching point	
0 (unattenuated)	≤ 2 mA
1 (attenuated)	≥ 4 mA

## Programming instructions

Profile	S-0.0
IO code	0
ID code	0

Data bits (function via AS-Interface)	input	output
D0	IN1	-
D1	IN2	-
D2	IN3	-
D3	IN4	-

Parameter bits (programmable via AS-i)	function
P0	not used
P1	not used
P2	not used
P3	not used

## Ambient conditions

Ambient temperature	-25 ... 70 °C (248 ... 343 K)
Storage temperature	-25 ... 85 °C (248 ... 358 K)

## Mechanical specifications

Protection degree	IP20
Connection	removable coded terminals, Power Rail
Mass	90 g
Mounting	DIN rail

## Compliance with standards and directives

Standard conformity	
Protection degree	EN 60529

## Function

The VAA-4E-KF2-ZE AS-Interface coupling module is a cabinet module with 4 inputs. Its design, only 20 mm wide, occupies little space in a cabinet installation. The VAA-4E-KF2-ZE is installed by snapping it onto the 35 mm DIN Rail per EN 50022, with the integrated Power Rail.

When an AS-Interface master/gateway is used in the cabinet housing, the AS-Interface signal is automatically transmitted via the Power Rail. The connection of the module to the AS-Interface cable is accomplished by simply snapping it onto the DIN Rail.

The plug-in coded terminals of the inputs allow "online" maintenance, i. e. while the system is under power. The terminals are coded to prevent incorrect connections.

If a master/gateway other than the one in the cabinet housing is used, the connection to the AS-Interface cable is established via the same terminals. Once the AS-Interface cable has been connected to the terminals, the AS-Interface signal is automatically transferred to the Power Rail.

The module and the inputs are supplied by the AS-Interface cable (see connection diagram). A programming jack is available for address configuration.

**Note:**

If an overload occurs in the sensor power supply, the AS-Interface master indicates an error and the module disconnects from the AS-Interface.

## Accessories

**VBP-HH1**

AS-Interface handheld

**VAZ-PK-1,5M-V1-G**

Connection cable module/hand-held programming device

**UPR-05**

Universal Power Rail

**UPR-E**

End cap